

WHAT IS CLAIMED IS:

1. An expandable stent for use at an ostium, comprising:
a tubular body having a longitudinal axis, a proximal end and a distal end;
at least one flaring member comprised of a short segment and a long segment, wherein said at least one flaring member is attached to the proximal end of said tubular body with the short segment and the long segment both parallel to the longitudinal axis of said tubular body in an unexpanded configuration; and
wherein the short segment of said at least one flaring member remains generally parallel to the longitudinal axis of said tubular body in an expanded configuration, and the long segment of said at least one flaring member becomes generally perpendicular to the longitudinal axis of said tubular body in the expanded configuration.
2. The expandable stent of claim 1, further comprising a retaining structure covering only said at least one flaring member, wherein the removal of said retaining structure results in the expanded configuration of said at least one flaring member.
3. The expandable stent of claim 1, wherein said tubular body is constructed from a cobalt-chrome alloy
4. The expandable stent of claim 3, wherein the cobalt-chrome alloy is MP35N.

5. The expandable stent of claim 1, wherein said tubular body is constructed from stainless steel.
6. The expandable stent of claim 1, wherein said at least one flaring member is constructed from an elastic material.
7. The expandable stent of claim 1, wherein said at least one flaring member is constructed from nitinol.
8. The expandable stent of claim 1, wherein said tubular body is placed onto a balloon of a balloon catheter for expansion within a body lumen.
9. The expandable stent of claim 1, wherein the short segment of said at least one flaring member has a length in the range of about 0.4 to 1.0 millimeters.
10. The expandable stent of claim 1, wherein the long segment of said at least one flaring member has a length in the range of about 1.0 to 5.0 millimeters.
11. The expandable stent of claim 1, wherein the expandable stent is a multiple module prosthesis and the multiple modules are fixed together.
12. The expandable stent of claim 11, wherein the multiple modules are fixed together by welds.
13. An ostium stent system, comprising:

a balloon catheter, wherein the balloon catheter includes a balloon mounted on a distal portion of the balloon catheter; and

a stent mounted on the balloon, the stent including:

a tubular body having a longitudinal axis, a proximal end and a distal end, wherein the tubular body is expanded by inflation of the balloon;

at least one flaring member attached to the proximal end of said tubular body, wherein said at least one flaring member is self expandable; and

a retaining structure covering only said at least one flaring member, wherein the removal of said retaining structure results in the expanded configuration of said at least one flaring member.

14. The ostium stent system of claim 13, wherein said tubular body is constructed from a cobalt-chrome alloy.

15. The ostium stent system of claim 14, wherein the cobalt-chrome alloy is MP35N.

16. The ostium stent system of claim 13, wherein said tubular body is constructed from stainless steel.

17. The ostium stent system of claim 13, wherein said at least one flaring member is constructed from an elastic material.

18. The ostium stent system of claim 13, wherein said at least one flaring member is constructed from nitinol.

19. The ostium stent system of claim 13, wherein said at least one flaring member is comprised of a short segment and a long segment, wherein said at

least one flaring member is attached to the proximal end of said tubular body with the short segment and the long segment both generally parallel to the longitudinal axis of said tubular body in an unexpanded configuration, and wherein the short segment of said at least one flaring member remains generally parallel to the longitudinal axis of said tubular body in an expanded configuration, and the long segment of said at least one flaring member becomes generally perpendicular to the longitudinal axis of said tubular body in the expanded configuration.

20. The ostium stent system of claim 19, wherein the short segment of said at least one flaring member has a length in the range of about 0.4 to 1.0 millimeters.

21. The ostium stent system of claim 19, wherein the long segment of said at least one flaring member has a length in the range of about 1.0 to 5.0 millimeters.

22. The ostium stent system of claim 14, wherein the stent is a multiple module prosthesis and the multiple modules are fixed together.

23. The ostium stent system of claim 22 wherein the multiple modules are fixed together by welds.

24. An ostium stent system, comprising:
a balloon catheter, wherein the balloon catheter includes a balloon mounted on a distal portion of the balloon catheter; and
a stent mounted on the balloon, the stent including:

a tubular body having a longitudinal axis, a proximal end and a distal end, wherein the tubular body is expanded by inflation of the balloon; and

at least one flaring member attached to the proximal end of said tubular body, wherein said at least one flaring member is self expandable.

25. The ostium stent system of claim 24 further comprising a retaining structure covering only said at least one flaring member, wherein the removal of said retaining structure results in the expanded configuration of said at least one flaring member.

26. The ostium stent system of claim 24, wherein said tubular body is constructed from a cobalt-chrome alloy

27. The ostium stent system of claim 24, wherein said tubular body is constructed from MP35N.

28. The ostium stent system of claim 24, wherein said tubular body is constructed from stainless steel.

29. The ostium stent system of claim 24, wherein said at least one flaring member is constructed from nitinol.

30. The ostium stent system of claim 24, wherein said at least one flaring member is comprised of a short segment and a long segment, wherein said at least one flaring member is attached to the proximal end of said tubular body with the short segment and the long segment both generally parallel to the longitudinal axis of said tubular body in an unexpanded configuration, and

wherein the short segment of said at least one flaring member remains generally parallel to the longitudinal axis of said tubular body in an expanded configuration, and the long segment of said at least one flaring member becomes generally perpendicular to the longitudinal axis of said tubular body in the expanded configuration.

31. The ostium stent system of claim 30, wherein the short segment of said at least one flaring member has a length in the range of about 0.4 to 1.0 millimeters.

32. The ostium stent system of claim 30, wherein the long segment of said at least one flaring member has a length in the range of about 1.0 to 5.0 millimeters.

33. The ostium stent system of claim 24, wherein the stent is a multiple module prosthesis and the multiple modules are fixed together.

34. The ostium stent system of claim 33, wherein the multiple modules are fixed together by welds.